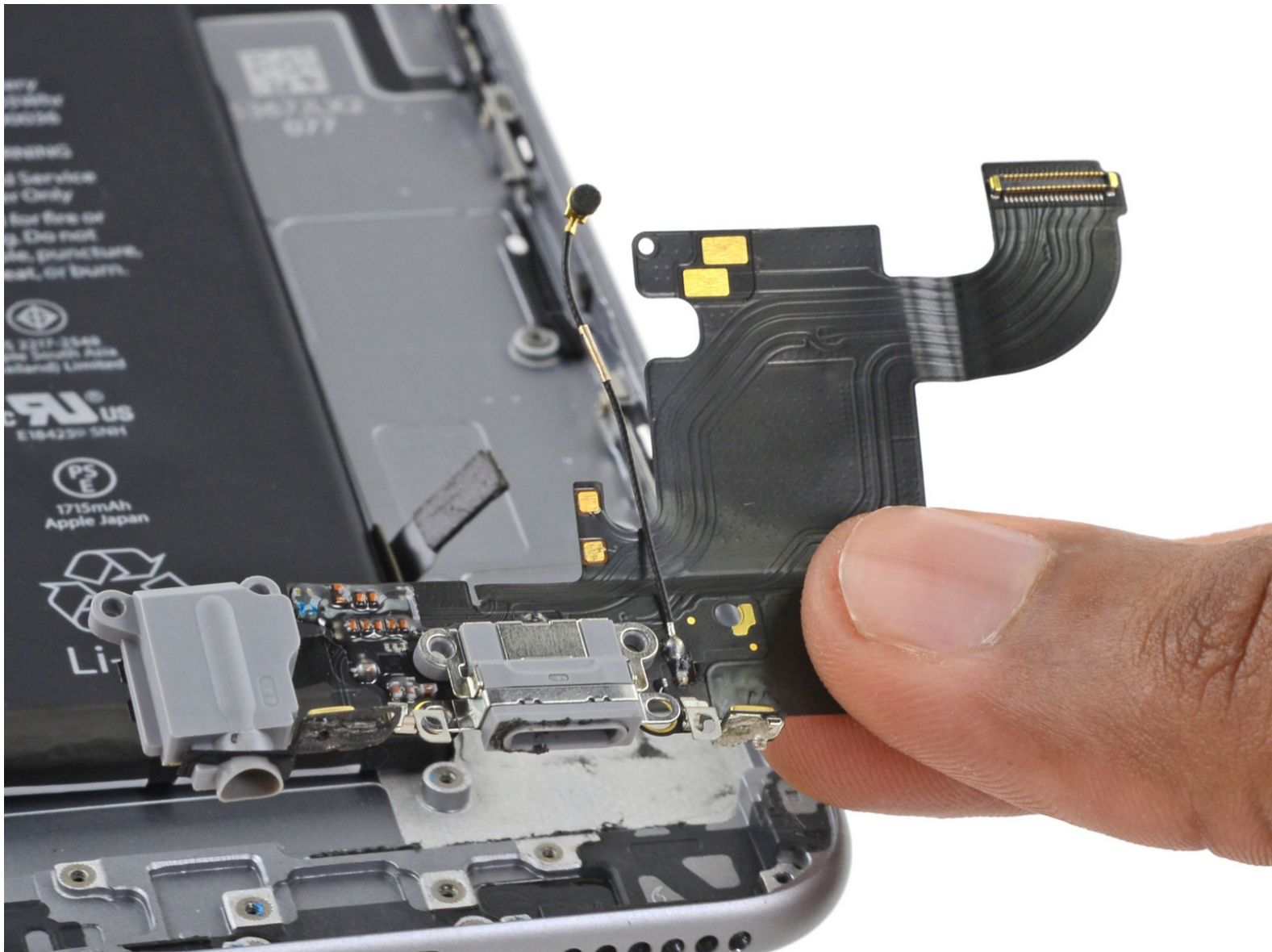




# iPhone 6s Lightning Connector Assembly Replacement

Replace the Lightning Connector assembly, including headphone jack and lower microphones in an iPhone 6s.

Written By: Evan Noronha



## INTRODUCTION

Follow the steps in this guide to replace the Lightning connector flex cable in an iPhone. This flex cable includes the Lightning connector, headphone jack, dual microphones, and spring contacts for the Taptic Engine and loudspeaker.



### TOOLS:

- [Nut Driver 2.5 mm](#) (1)
- [P2 Pentalobe Screwdriver iPhone](#) (1)
- [Suction Handle](#) (1)
- [Spudger](#) (1)
- [Phillips #000 Screwdriver](#) (1)
- [Tweezers](#) (1)
- [SIM Card Eject Tool](#) (1)
- [iFixit Opening Picks set of 6](#) (1)




### PARTS:

- [iPhone 6s Lightning Connector and Headphone Jack](#) (1)
- [iPhone 6s Lightning Connector Cable Adhesive](#) (1)

## Step 1 — Pentalobe Screws



 Before disassembling your iPhone, discharge the battery below 25%. A charged lithium-ion battery can catch fire and/or explode if accidentally punctured.

- Power off your iPhone before beginning disassembly.
- Remove the two 3.4 mm P2 Pentalobe screws on the bottom edge of the iPhone, next to the Lightning connector.

## Step 2 — Opening Procedure



- ❗ Opening the display on the 6s separates a thin strip of adhesive around the perimeter of the display. If you prefer to replace the adhesive, have a set of new adhesive strips ready before you continue. It's possible to complete the repair without replacing the adhesive, and you probably won't notice any difference in functionality.
- Apply a suction cup to the lower left corner of the display assembly.
- Take care **not** to place the suction cup over the home button.

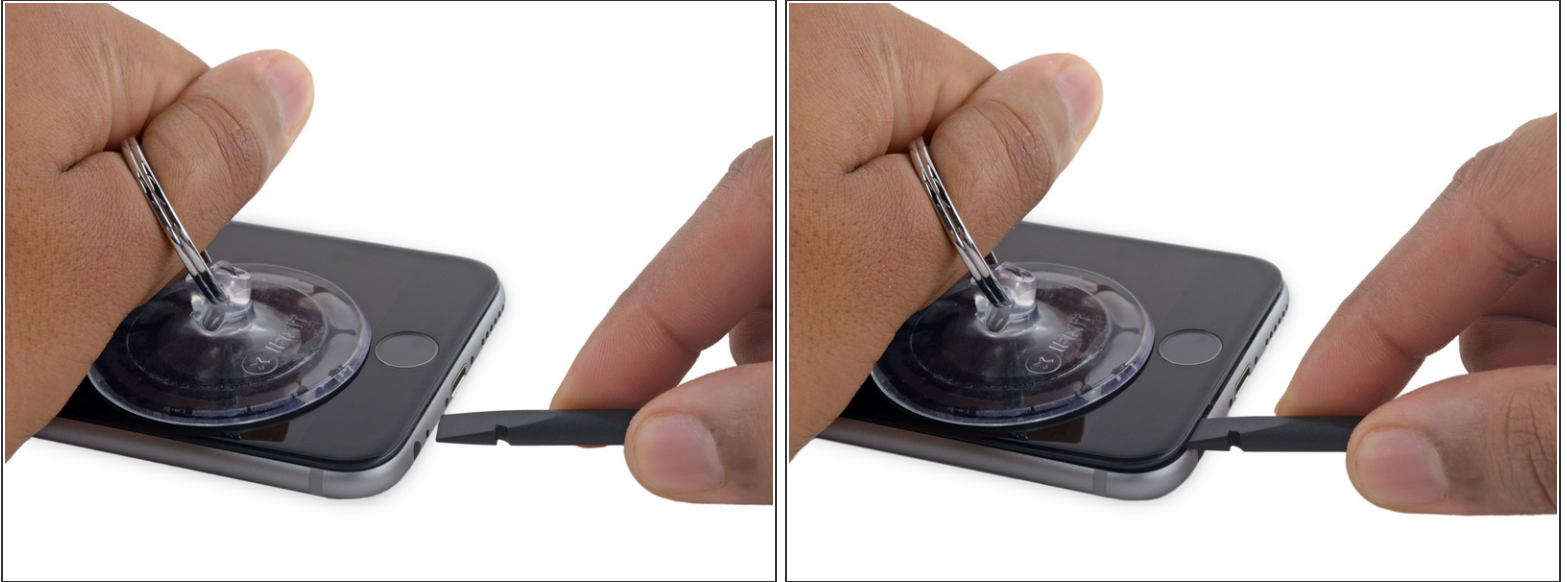


## Step 3



- Pull up on the suction cup with firm, constant pressure to create a slight gap between the front panel and rear case.
  - ⓘ Take your time and apply firm, constant force. The display assembly is a much tighter fit than most devices and is held down with adhesive.
- ⚠ Pulling too hard may damage the display assembly. Apply just enough pressure to create a small gap between the display assembly and the rear case.

## Step 4



- i** There is a notch on the underside of the display, just above the headphone jack. This is the safest place to begin prying the phone open.
- Place the flat edge of a spudger into the gap between the screen and rear case, directly above the headphone jack.

## Step 5



- Twist the spudger to widen the gap between the front panel assembly and the rest of the phone.

## Step 6



- Insert the flat end of the spudger on the left side of the phone, between the display assembly and rear case.
- Slide the spudger up the side of the phone to separate the adhesive and pop the clips free.

## Step 7



- Remove the spudger and reinsert it on the bottom edge, where you pried the phone open.
- Slide the spudger to the right, along the bottom edge of the phone.



## Step 8



- Slide the spudger up the right side to continue separating the adhesive and popping the display clips free from the iPhone.

## Step 9



- Use the suction cup to open the display, breaking the last of the adhesive.

⚠ Don't open the display more than 90°, as it is still connected at the top by three cables that may break if stretched.

## Step 10



- Pull up on the nub on the top side of the suction cup to remove it from the front panel.

## Step 11



- Gently grasp the display assembly and lift it up to open the phone, using the clips at the top of the front panel as a hinge.
- Open the display to about a 90° angle, and lean it against something to keep it propped up while you're working on the phone.
  - Add a rubber band to keep the display securely in place while you work. This prevents undue strain on the display cables.

 In a pinch, you can use an unopened canned beverage to hold the display.



## Step 12 — Battery Connector



- Remove the two Phillips screws securing the battery connector bracket:
  - One 2.9 mm screw
  - One 2.2 mm screw

## Step 13



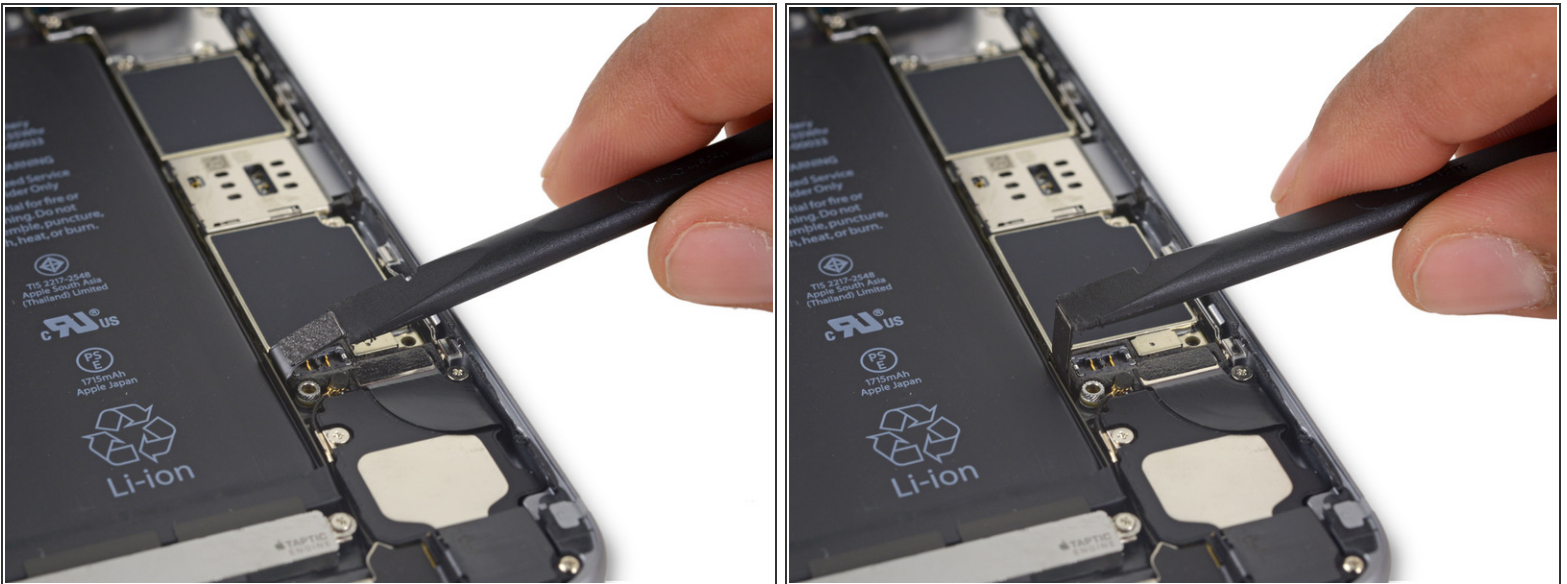
- Remove the battery connector bracket from the iPhone.

## Step 14



- Use the point of a spudger to disconnect the battery connector by prying it straight up from the logic board.

## Step 15



- Push the battery connector away from the logic board until it stays separated from its socket, so as to avoid any accidental connection to the battery while you work.



## Step 16 — Front Panel Assembly



- Remove the following four Phillips screws securing the display cable bracket:
  - Three 1.2 mm screws
  - One 2.8 mm screw

## Step 17



- Remove the display cable bracket.

## Step 18




- Use the flat end of a spudger, or a fingernail, to disconnect the front camera flex cable by prying it straight up from its socket on the logic board.

## Step 19



- Use the flat end of a spudger, or a fingernail, to disconnect the digitizer cable by prying it straight up from its socket on the logic board.

 When reconnecting the digitizer cable, **do not press the center of the connector**. Press one end of the connector, then press the opposite end. Pressing in the center of the connector can bend the component and cause digitizer damage.

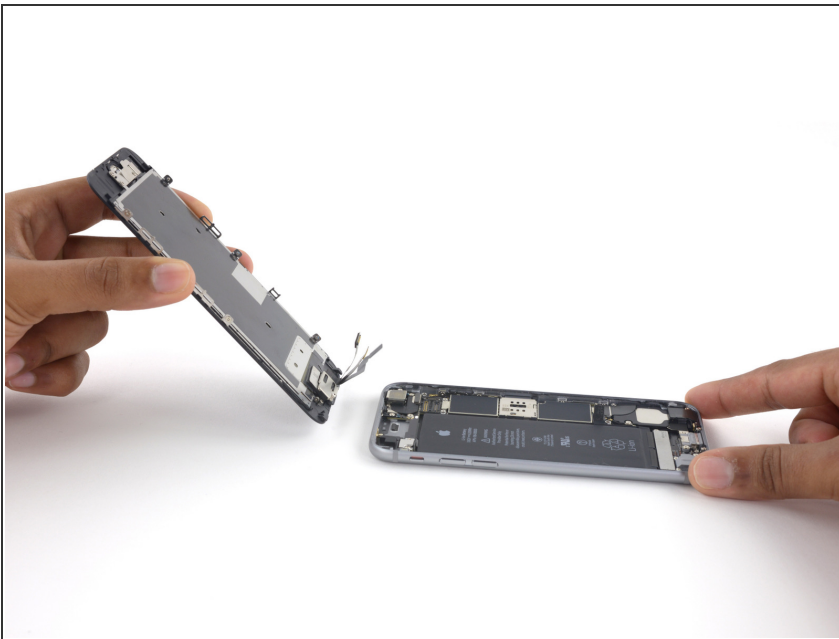


## Step 20



- Use the flat end of a spudger, or a fingernail, to disconnect the display data cable by prying it straight up from its socket on the logic board.

## Step 21



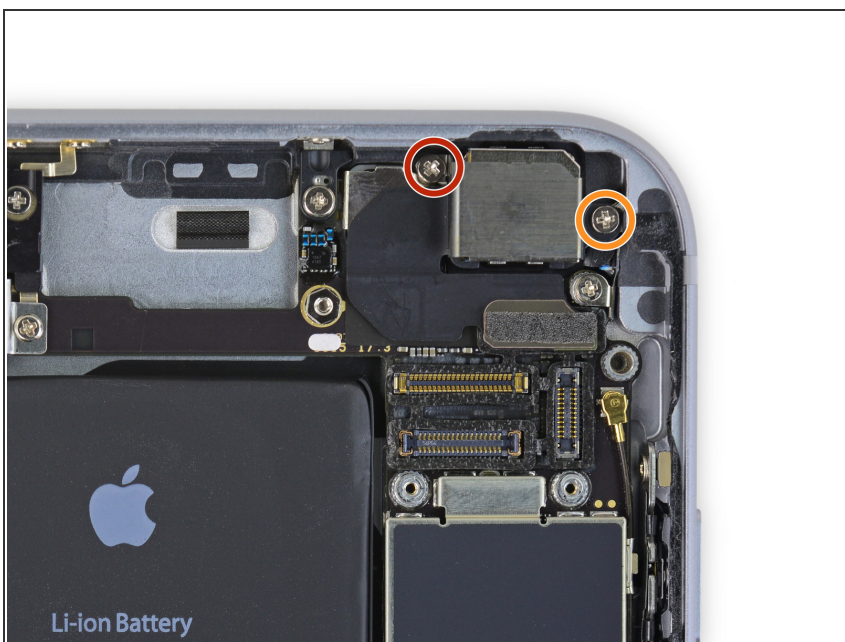
- Remove the display assembly.
- ☑ During reassembly, pause here if you wish to [replace the adhesive around the edges of the display](#).

## Step 22 — iSight Camera



- Use the flat end of a spudger to disconnect the iSight camera from its socket on the logic board.

## Step 23



- Remove the following two Phillips screws over the iSight camera bracket:
  - One 1.6 mm screw
  - One 2.0 mm screw



## Step 24



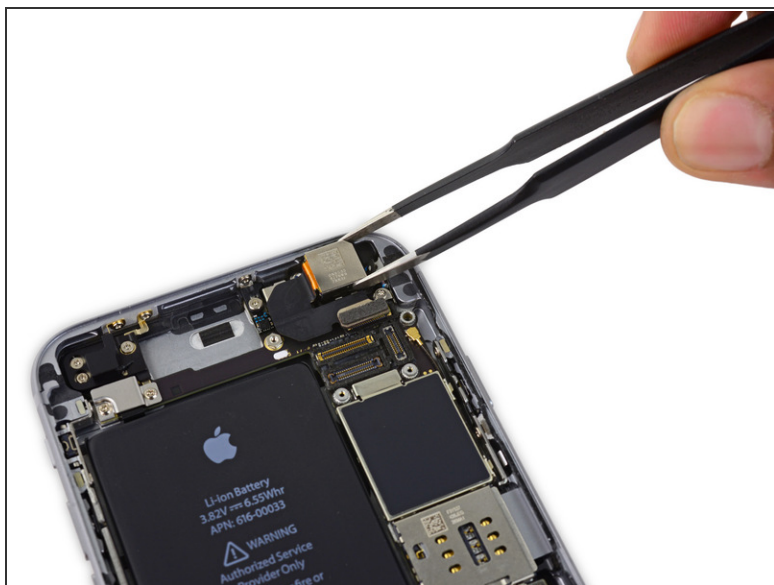
- Remove the camera bracket.

## Step 25



- Insert a spudger to the side of the camera, between the rear case and the camera module.
- Gently pry up on the camera to nudge it out from its housing.

## Step 26



- Remove the camera.

## Step 27 — SIM Tray



- Insert a SIM card ejector tool or a paperclip into the small hole in the SIM card tray.
- Press to eject the tray.
- ⓘ This may require a significant amount of force.

## Step 28



- Remove the SIM Card tray assembly from the iPhone.
- ☑ When reinserting the SIM card, ensure that it is in the proper orientation relative to the tray.

## Step 29 — Logic Board



- Remove the two 2.3 mm Phillips screws securing the upper component cable connector bracket.



## Step 30



- Remove the upper component cable connector bracket.

## Step 31



- Remove the following five Phillips screws securing the top left Wi-Fi antenna:
  - Two 1.5mm screws
  - One 2.3 mm screw
  - One 1.9 mm screw
  - One 2.0 mm screw

## Step 32



- Remove the top left Wi-Fi antenna.

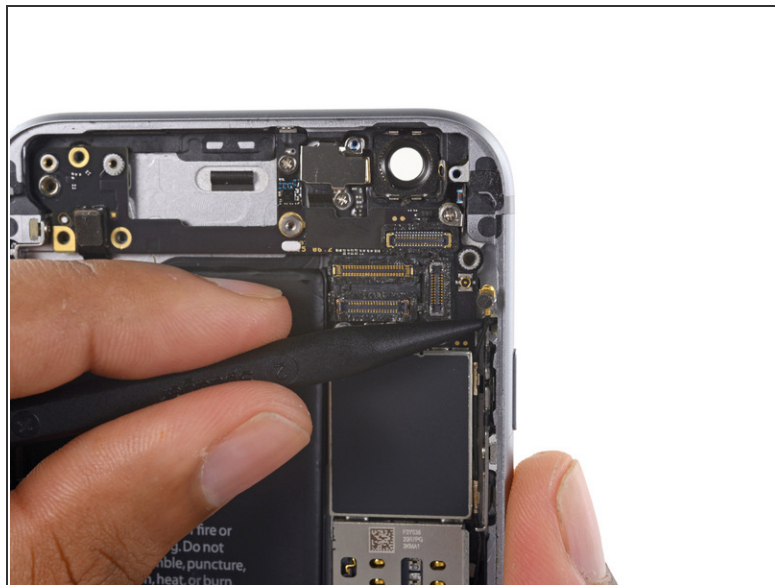
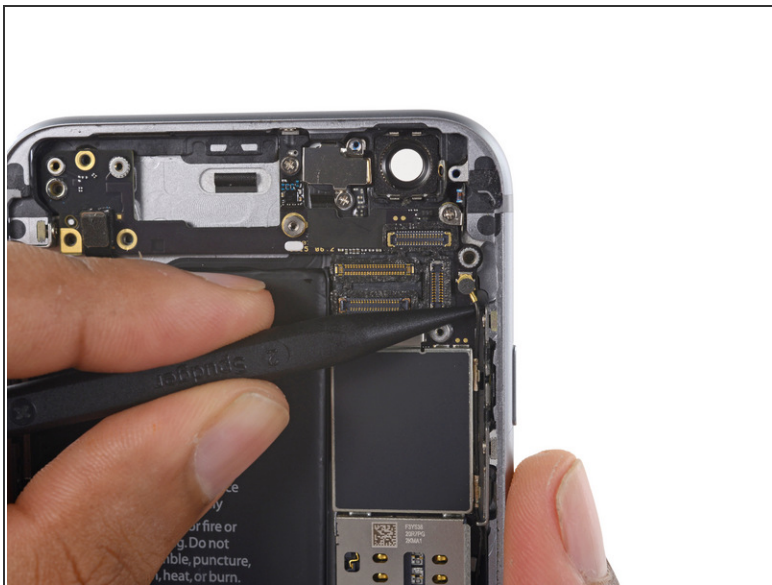
## Step 33



- Use the flat end of a spudger to disconnect the audio control cable from its socket on the logic board.



## Step 34



- Use the pointed tip of a spudger to disconnect the antenna cable from its socket on the upper right corner of the logic board.

## Step 35



- Use the pointed tip of a spudger to disconnect the antenna cable from its socket on the lower left corner of the logic board.

## Step 36



- Insert the flat end of a spudger underneath the Lightning connector ribbon cable. Lift up to disconnect it from its socket on the logic board.

## Step 37



- Gently pull up on the antenna cable to de-route it from the two clips on the right side of the logic board.



## Step 38



- Remove the 1.3 mm Phillips screw securing the NFC bracket to the logic board.

## Step 39



- Remove the NFC bracket.

## Step 40



- Remove the following two Phillips screws:
  - One 2.5 mm screw at the top of the logic board
  - One 1.4 mm screw set into the upper edge of the rear case

## Step 41



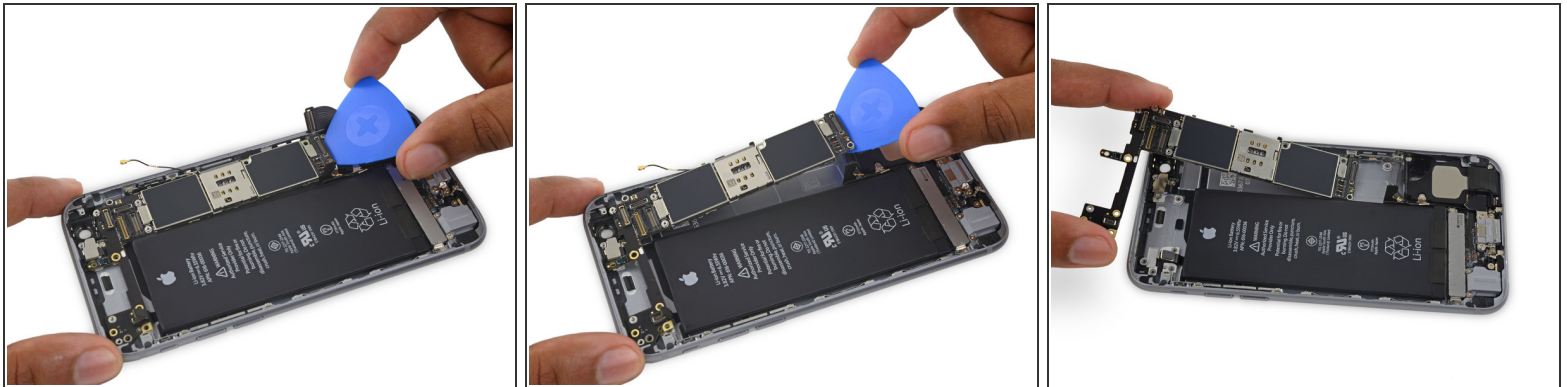
- Remove the plastic clip.

## Step 42



- Remove the final three screws securing the logic board to the rear case:
  - One 1.9 mm Phillips screw
  - One 2.5 mm standoff hex nut
  - One 1.8 mm Phillips screw

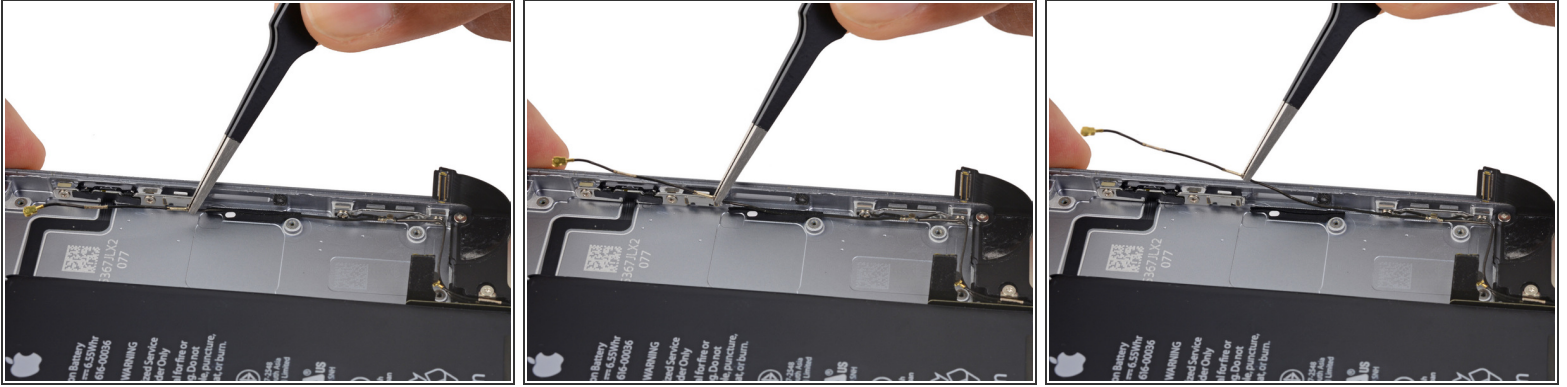
## Step 43



- Insert an opening pick below the lower edge of the logic board, between the board and the loudspeaker.
- Use the opening pick to gently lift the logic board out of its housing.
- Remove the logic board.

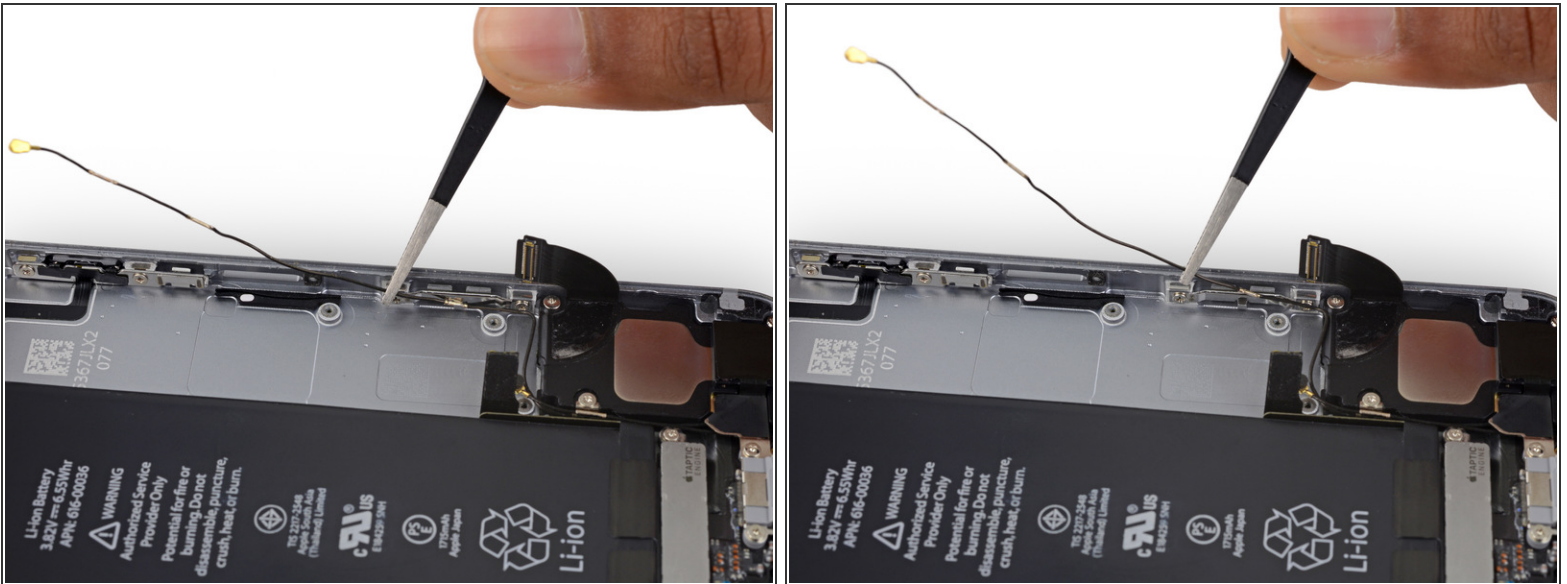


## Step 44 — Speaker Assembly



- Deroute the antenna cable from the rubber sleeve on the right edge of the rear case.

## Step 45



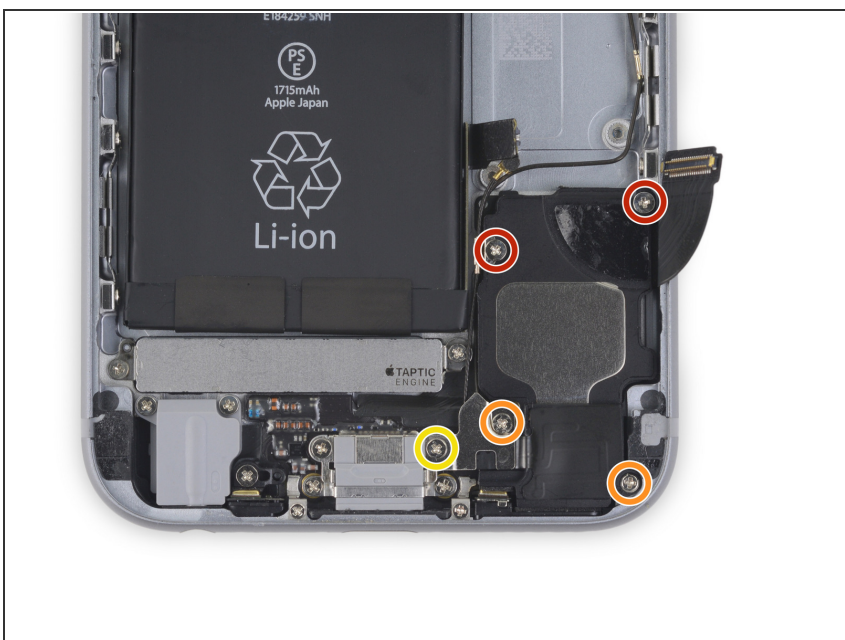
- Continuing down the side of the rear case, release the antenna cable from the small metal clip on the rear case.

## Step 46



- Use tweezers to remove the tape over the Wi-Fi diversity antenna bracket.

## Step 47



- Remove the following five Phillips screws:
  - Two 2.6 mm screws
  - Two 2.3 mm screws
  - One 3.0 mm screw

## Step 48



- Remove the speaker assembly.

## Step 49 — Lightning Connector Assembly



- Remove the two 1.5 mm Phillips screws securing the Taptic Engine to the rear case.
- Remove the Taptic Engine.



## Step 50



- Remove the following eight Phillips screws:
  - Two 2.9 mm screws over the headphone jack
  - One 3.7 mm screw over the headphone jack bracket
  - Two 1.4 mm screws on the edge of the iPhone
  - Two 1.9 mm screws on either side of the Lightning connector
  - One 3.0 mm screw to the left of the connector

## Step 51



- Remove the plastic microphone bracket.

## Step 52



- Insert a plastic opening pick between the edge of the rear case and the flex cable.
- Gently press the pick underneath the flex cable to break up the adhesive holding it in place.

## Step 53



- Insert the flat end of a spudger between the Lightning connector assembly and rear case to break up the remaining adhesive.



## Step 54



- Use the pointed tip of a spudger to nudge the headphone jack out of its housing in the rear case.

## Step 55



- Use the tip of a spudger to separate the two microphones from the bottom edge of the rear case.



## Step 56



- Remove the Lightning connector assembly.

To reassemble your device, follow these instructions in reverse order.

This document was last generated on 2017-09-07 03:29:37 PM.